

2-19-04

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Attorney Docket Number	1505-67959
	Application Number	10/783 515
	Filing Date	2-19-04
	First Named Inventor	Hutchison
	Art Unit	2813
	Examiner Name	THOMPSON

U.S. PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Name
CAT		4,522,932	06/1985	Mitchell, III
CAT		5,242,877	09/1993	Dobson et al.
CAT		5,389,401	02/1995	Gordon
CAT		5,536,858	07/1996	LaLonde et al.
CAT		5,521,289	05/1996	Hainfeld et al.
CAT		5,578,248	11/1996	Hattori et al.
CAT		5,952,172	09/1999	Meade et al.
CAT		6,121,425	09/2000	Hainfeld et al.

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Number	Date	Country
CAT		WO98/53841	12/3/98	Europe

OTHER DOCUMENTS

Examiner's Initials*	Cite No. (optional)	
		Alivisatos, A., <i>et al.</i> , Organization of 'Nanocrystal Molecules' using DNA, <i>Nature</i> , 382:609-611, 1996.

EXAMINER SIGNATURE: <i>Craig A. Zhou</i>	DATE CONSIDERED: 11/14/04
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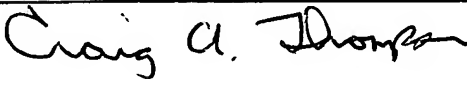
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Attorney Docket Number	1505-67959
		Application Number	10/783515
		Filing Date	2-19-04
		First Named Inventor	Hutchison
		Art Unit	2813
		Examiner Name	THOMPSON
CAT		Andres, R., <i>et al.</i> , 'Coulomb Staircase' at Room Temperature in a Self-assembled Molecular Nanostructure, <i>Science</i> , 272:1323-1325, 1996.	
CAT		Andres, R., <i>et al.</i> , Self-Assembly of a Two-Dimensional Superlattice of Molecularly Linked Metal Clusters, <i>Science</i> , 273:1690-1693, 1996.	
CAT		Applicants co-pending U.S. Application No. 09/085,390, filed May 27, 1995, Scaffold-Organized Metal, Alloy, Semiconductor, and/or Magnetic Lusters and Electronic Devices Made Using Such Clusters.	
CAT		Braun, E., <i>et al.</i> , DNA-Templated Assembly and Electrode Attachment of a Conducting Silver Wire, <i>Nature</i> , 391:775-778, 1998.	
CAT		Brown, L. and Hutchison, J., Convenient Preparation of Stable, Narrow-Dispersity, Gold Nanocrystals by Ligand Exchange Reactions, <i>J. Am. Chem. Soc.</i> , 119:12384-12385, 1997.	
CAT		Brust, M., <i>et al.</i> , Novel Gold-dithiol Nano-networks with Non-metallc Electronic Properties, <i>Adv. Mater.</i> , 7:795-797, 1995.	
CAT		Clarke, L., <i>et al.</i> , Fabrication and Near-room Temperature Transport of Patterned Gold Cluster Structures, <i>J. Vac. Sci. Technol. B</i> , 15:2925-2929, 1997.	
CAT		Feldheim, D., <i>et al.</i> , Electron Transfer in Self-Assembled Inorganic Polyelectrolyte/Metal Nanoparticle Heterostructures, <i>J. Am. Chem. Soc.</i> , 118:7640-7641, 1996.	
CAT		Geerligs, L., <i>et al.</i> , Frequency-Locked Turnstile Device for Single Electrons, <i>Phys. Rev. Lett.</i> , 64:2691-2694, 1990.	
CAT		Grabar, K., <i>et al.</i> , Preparation and Characterization of Au Colloid Monolayers, <i>Anal. Chem.</i> , 67:735-743, 1995.	
CAT		Itou, S., Reorientation of Poly- γ -Benzyl L-Glutamate Liquid Crystals in an Electric Field, <i>Jpn. J. Appl. Phys.</i> , 24:1234-1235, 1985.	
CAT		James J. Storhoff and Chad A. Mirkin, "Programmed Materials Synthesis with DNA," American Chemical Society, pp. 1849-1862 (1999).	
CAT		Likharev, K., Correlated Discrete Transfer of Single Electrons in Ultrasmall Tunnel Junctions, <i>IBM J. Res. Dev.</i> , 32:144-158, 1988.	
CAT		Mirkin, C., <i>et al.</i> , A DNA Based Method for Rationally Assembling Nanoparticles into Macroscopic Materials, <i>Nature</i> , 382:607-609, 1996.	
CAT		Niemeyer, C., DNA as a Material for Nanotechnology, <i>Angew. Chem., Int. Ed. Engl.</i> , 36:585-587, 1997.	
CAT		O'Konski, C., <i>et al.</i> , Electric Properties of Macromolecules. IV. Determination of Electric and Optical Parameters From Saturation of Electric Birefringence in Solutions, <i>J. Phys. Chem.</i> , 63:1558-1565, 1959.	
CAT		Osifchin, R., <i>et al.</i> , Synthesis of a Quantum Dot Superlattice using Molecularly Linked Metal Clusters, <i>Superlattices and Microstructures</i> , 18:283-289, 1995.	
CAT		Peschel, S. and Schmid, G., First Steps Towards Ordered Monolayers of Ligand-Stabilized Gold Clusters, <i>Angew Chem. Int. Ed. Engl.</i> , 34:1442-1443, 1995.	
EXAMINER SIGNATURE: <i>Craig A. Thompson</i>		DATE CONSIDERED: 11/14/04	
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CAT		Pothier, H., <i>et al.</i> , Single-Electron Pump Based on Charging Effects, <i>Europhys. Lett.</i> , 17:249-254, 1992.	
CAT		Qi, J. <i>et al.</i> , Ligation of Triangles Built from Bulged 3-Arm DNA Branched Junctions, <i>J. Am. Chem. Soc.</i> , 118:6121-6130, 1996.	
CAT		Schmid, G., Hexachlorododecakis(triphenylphosphine)pentapentacontagold, <i>Au₅₅[P(C₆H₅)₃]₁₂Cl₆</i> , <i>Inorg. Syn.</i> , 27:214-218, 1990.	
CAT		Schón, G and Simon, U., A Fascinating New Field in Colloid Science: Small Ligand-stabilized Metal Clusters and their Possible Application in Microelectronics, <i>Colloid Polym. Sci.</i> , 273:202-218, 1995.	
CAT		Seeman, N., DNA Components for Molecular Architecture, <i>Accounts of Chemical Research</i> , 30:357-363, 1997.	
CAT		Simon, U., <i>et al.</i> , The Application of Au ₅₅ Clusters as Quantum Dots, <i>Angew Chem. Int. Ed. Engl.</i> , 32:250-254, 1993.	
CAT		Whitesell, J., <i>et al.</i> , Directionally Aligned Helical Peptides on Surfaces, <i>Science</i> , 261:73-76, 1993.	
CAT		Wybourne, M., <i>et al.</i> , Coulomb-blockade Dominated Transport in Patterned Gold-Cluster Structures, <i>Jpn. J. Appl. Phys.</i> , 36:7796-7800, 1997.	
CAT		Yano, K., <i>et al.</i> , Transport Characteristics of Polycrystalline-Silicon Wire Influenced by Single-Electron Charging at Room Temperature, <i>Appl. Phys. Lett.</i> , 67:828-830, 1995.	

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ePHOENIX Reference Manager

Application Number:

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2-19-04

Application Number 10/783,515

Testing 519919 - Form PTO-1449, 19-FEB-2004, Paper Number 0204

Document Number	Date	Inventor Names	Classification
US-4,522,932	06-1985	Mitchell, III, Howard L.	502/153
US-5,242,877	09-1993	Dobson et al.	502/159
US-5,389,401	02-1995	Gordon, Roy G.	427/255.36
US-5,536,858	07-1996	Lalonde et al.	556/21
US-5,521,289	05-1996	Hainfeld et al.	530/391.5
US-5,578,248	11-1996	Hattori et al.	252/519.21
US-5,952,472	09-1999	Hanai et al.	530/387.1
US-6,121,425	09-2000	Hainfeld et al.	530/391.5

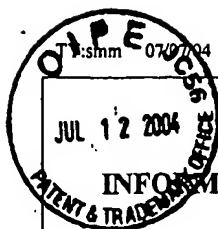
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EAST Search String:

("4522932"|"5242877"|"5389401"|"5536858"|"5521289"|"5578248"|"5952472"|"6121425").PN.

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7-12-04



1505-67959

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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First Named Inventor	Wybourne
Art Unit	2913
Examiner Name	THOMPSON

U.S. PATENT DOCUMENTS

NOTE: If this application was filed after June 30, 2003, copies of United States patents and United States published patent applications do not have to be provided to the Patent Office. This requirement of 37 C.F.R. § 1.98(a)(2)(i) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on August 5, 2003 (1276 OG 55).

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
CAT		5,156,810	10.20.1992	Ribi
CAT		6,730,537	5.4.2004	Hutchison <i>et al.</i>
CAT		US-2002-0146742-A1	10.10.2002	Wybourne <i>et al.</i>

FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
		WIPO	WO 94/03496	2.17.1994	Chatelier <i>et al.</i>

OTHER DOCUMENTS

CAT		Abstract of poster entitled: "Synthesis of subnanometer water-soluble thiol-stabilized nanoparticles by ligand exchange reactions." Gerd Woehrle, Marvin Warner, and James Hutchison, published on the Web circa June 14, 2001.
CAT		Bartlett, P.A., <i>et al.</i> , "Synthesis of Water-Soluble Undecagold Cluster Compounds of Potential Importance in Electron Microscopic and Other Studies of Biological Systems," <i>J. Am. Chem. Soc.</i> , Vol. 100, pp. 5085-5089 (1978).
CAT		Mao, C., <i>et al.</i> , "Designed Two-Dimensional DNA Holliday Junction Arrays Visualized by Atomic Force Microscopy," <i>J. Am. Chem. Soc.</i> , Vol. 121, p. 5437-5443 (1999).
CAT		Storhoff, J.J. <i>et al.</i> , "Programmed Materials Synthesis with DNA," <i>Chem. Rev.</i> , Vol. 99, pp. 1849-1862 (1999).
CAT		Winfrey, E., <i>et al.</i> , "Design and Self-Assembly of Two-Dimensional DNA Crystals," <i>Nature</i> , Vol. 394, pp. 539-544 (1998).
CAT		Woehrle, G., <i>et al.</i> , "Ligand Exchange Reactions Yield Subnanometer, Thiol-Stabilized Gold Particles with Defined Optical Transitions," <i>J. Phys. Chem. B</i> , Vol. 106, pp. 9979-9981 (2002).
CAT		International Search Report for International Application No. PCT/US03/20500, <i>International Searching Authority</i> , December 11, 2003.

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